



AMD Developer Center

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Developer Center Manager

CPG Platform Engineering & Infrastructure

Developer Center Objectives



- Provide our partners with access to systems based on 8th-generation AMD Athlon™ and AMD Opteron™ processors and future AMD hardware
- Provide developers with real-time access to AMD technical expertise, advanced hardware tools, and AMD internal software tools
- Provide facility to do AMD-specific ISA (x86-64) compatibility testing and CPU feature testing at a programming level
- Educate and enable our partners to optimize their products for AMD platforms

Developer Center Services



- Code Optimization
 - CPU utilization information and optimizations
 - Memory and cache bandwidth optimizations
 - FPU through-put, SSE, and SSE2 optimizations
- Platform I/O Analysis
 - AGP & graphics device driver optimizations
 - PCI & PCI-X device driver optimizations
- Provide current & future AMD hardware for
 - 32-bit application compatibility testing with 64-bit operating systems
 - x86-64 software port testing, “Windows64” (when available) and Linux64
 - Multiprocessor system scalability testing
- Virtual Lab
 - Remote software application development
 - Accessible using a private VPN
 - Windows®, Linux, and Solaris clients supported

Available Hardware

- Single-processor 8th-generation AMD Athlon™ (“Clawhammer”) desktop machines, 512MB-2GB RAM
- Dual processor AMD Opteron™ (“Clawhammer DP”) server/workstation machines, 1-4GB RAM
- Quad processor AMD Opteron (“Sledgehammer”) server machines, 4-16GB RAM
- Systems are available in variable configurations on special request (OS, tools, memory, video, networking, storage, etc.)

Developer Center Facilities

- Location: One AMD, Sunnyvale, CA
 - Custom facility design
 - Dedicated to partner development
- Three main rooms
 - Server Room
 - Networking, local servers, and Virtual Lab hosting
 - Gigabit CAT6 network throughout facility
 - T1 connection to outside of AMD
 - Collaborative Work Room
 - Eight workstations, one conference table
 - Five A/V outlets able to source video projector & speakers
 - Conference table with A/V, power, networking, and phone
 - Software work area
 - Hardware work area, two-level workbenches
 - ESD flooring throughout
 - Secure Partner Room
 - Private work area for a partner
 - 2-3 workstations
 - Key card access point

Developer Center Security

- Key card access to facility
- No “front desk visitor log”
- Network is not on AMD corporate LAN
 - Secure enterprise-class firewall
- Clean OS & Tools may be rebuilt for every user
- Developer Center is monitored by AMD Security
 - Video surveillance ensures your IP is safe and confidential

Summary

- Learn more about how to optimize your software or hardware drivers for maximum performance
- Opportunity to work with AMD Engineers one-on-one
 - Analyzing your AMD-specific code paths
 - Porting to x86-64
 - Optimizing for Hammer
- Gain access to early AMD hardware and multiple configurations for development work
- Gain access to selected AMD internal hardware and software tools for optimization and debug development

How to sign up!

1. Get information on the Developer Center from your AMD Alliance Manager
 - Will send you a web URL to use when requesting access to the Developer Center
2. Request access to the Developer Center
 - Information needed is: Virtual Lab or physical visit, your name, contact information, number of attendees, AMD Alliance Manager name, hardware and software configuration requests, Developer Center service request(s), and date request(s)
 - Have your company and AMD sign the Developer Center User Agreement
3. Receive confirmation from Developer Center Manager based on resource availability

Where to go for information

<http://www.developwithamd.com/devcenter>

- Contact your AMD Partner Alliance Manager for more information on how to sign up!
- Developer Center Manager
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